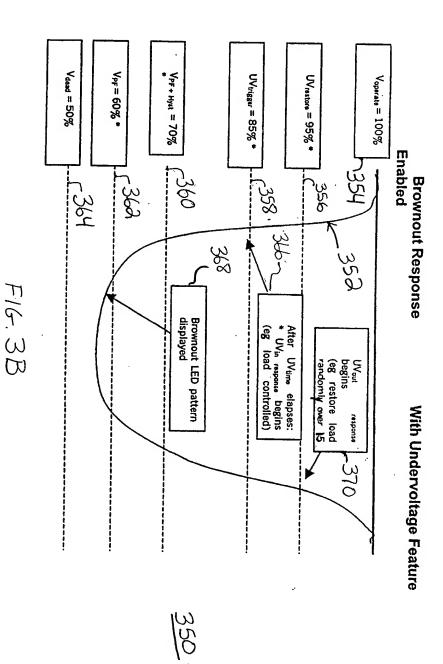
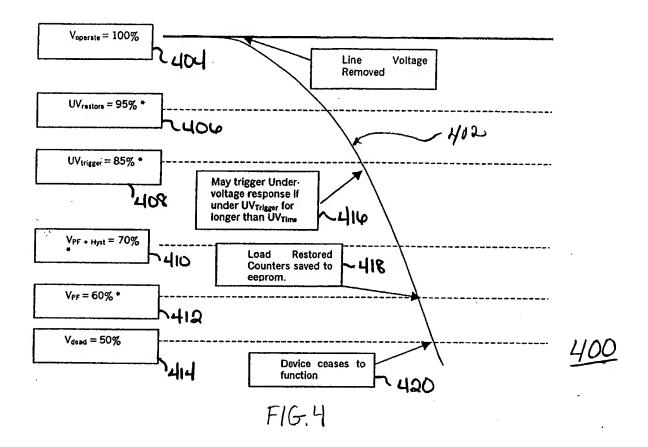


FIG. 3A

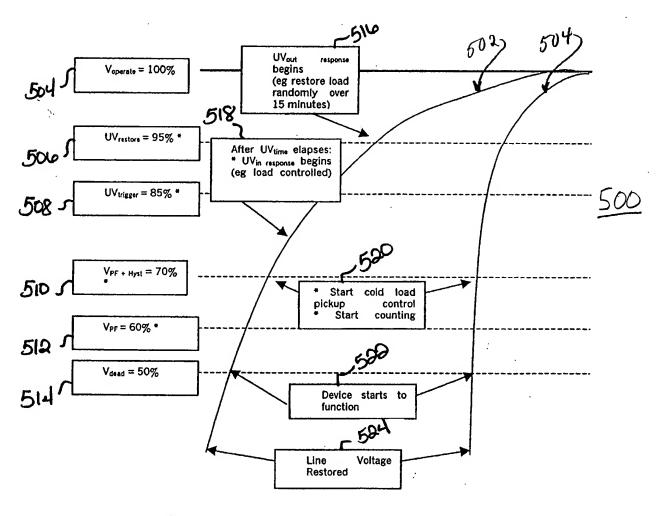


Powerfail Response Enabled

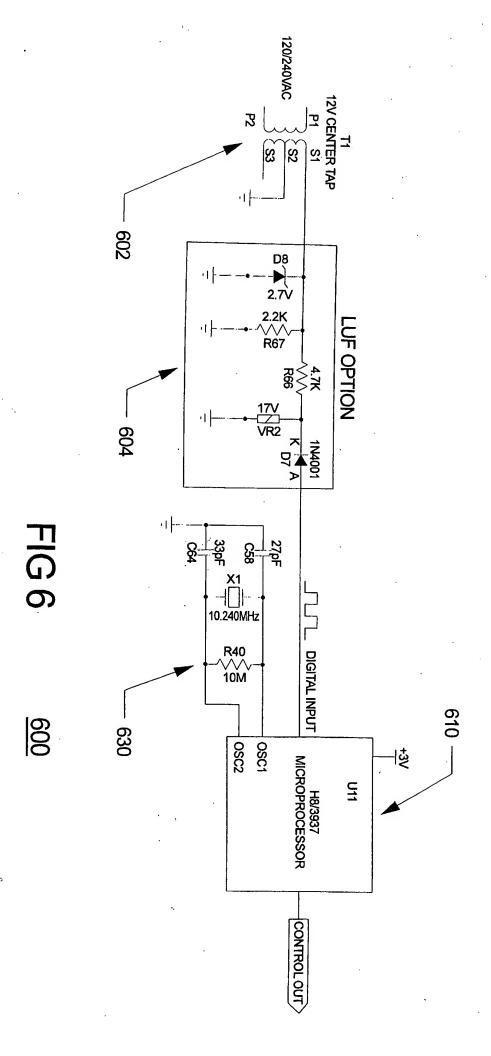
With Undervoltage Feature

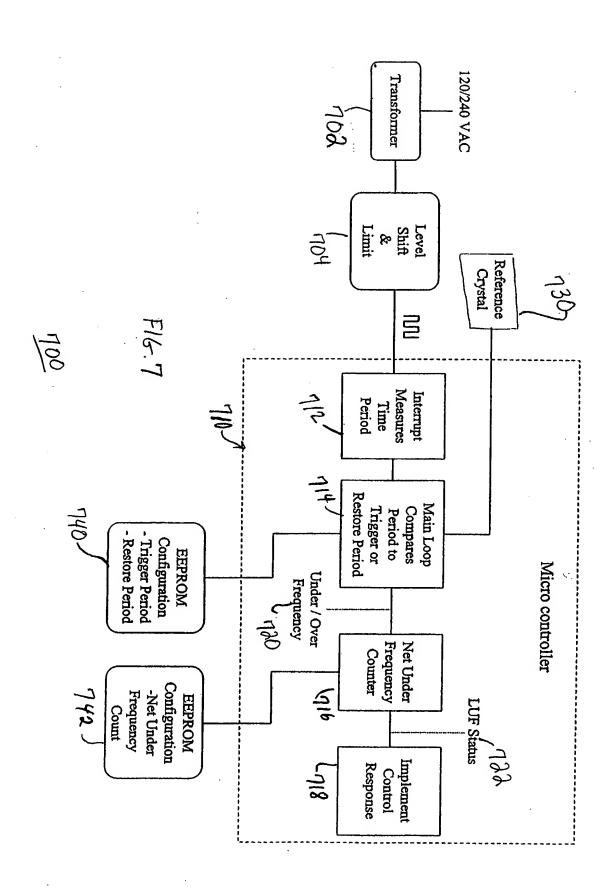


Power Restore Response With Undervoltage Feature Enabled



F16,5

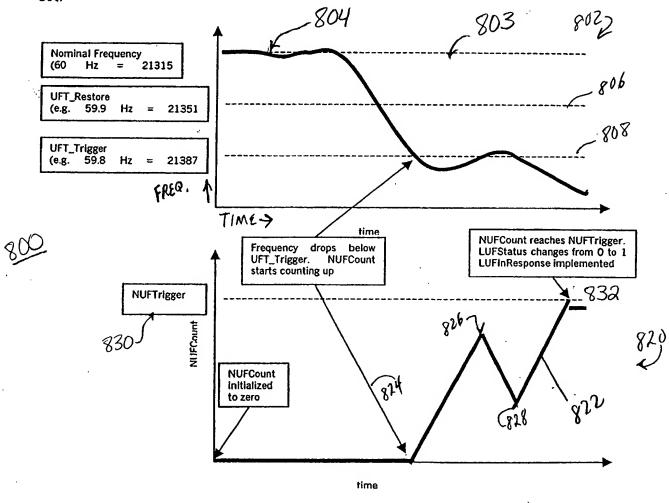




1.1.4.1. Normal Operation (LUFStatus = 0)

For each sample, the length of the cycle is compared to the UFT_Trigger. If the cycle length is greater or equal to the trigger, than NUFCount is incremented. If the cycle length is less than the trigger than NUFCount is decremented.

If NUFCount reaches NUFTrigger, then a under frequency condition has been detected and then the LUFInResponse is implemented and the LUFStatus is set.

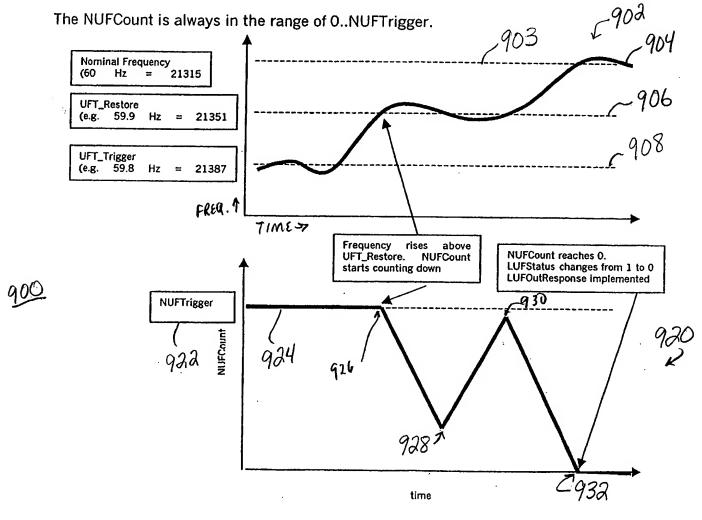


F16.8

1.1.4.2. Underfrequency Operation (LUFStatus = 1)

Once LUFStatus is set, then each cycle is compared to UFT_Restore. If the cycle length is greater or equal to the trigger, than NUFCount is incremented. If the cycle length is less than the trigger than NUFCount is decremented.

If NUFCount reaches zero, then the under frequency condition has ceased, and then the LUFOutResponse is implemented and the LUFStatus cleared.



F16.9

1.1.5. OPERATION (ALGORITHM)

For each power line cycle:

If LUFStatus is Normal

If MLP >= UFT_Trigger

Increment NUFCount

Else

Decrement NUFCount

If NUFCount>=NUFTrigger AND NUFTrigger is non-zero

Set LUFStatus to Under-Frequency

Increment LUFCount

Perform LUFInResponse (typically control all loads)

Else LUFStatus is Under-Frequency

If MLP >= UFT_Restore

If (NUFCount<NUFTrigger)</pre>

Increment NUFCount

Else

Decrement NUFCount

If NUFCount is Zero or NUFTrigger is zero

Set LUFStatus to Normal

Perform LUFOutResponse (typically restore all loads)